

POTOMAC RIVER

(in four sheets)

SHEET No. 1 FROM ENTRANCE TO PINEY POINT

From a Trigonometrical Survey
under the direction of A.D. BACHE Superintendent of the
SURVEY OF THE COAST OF THE UNITED STATES

Triangulation by E. BLUNT, R.D. CUTTS and J. FARLEY Assistants.

Topography by R.D. CUTTS, JOHN SEIB, L.H. ADAMS Assistants, and S.A. WAINWRIGHT Sub-Assistant.

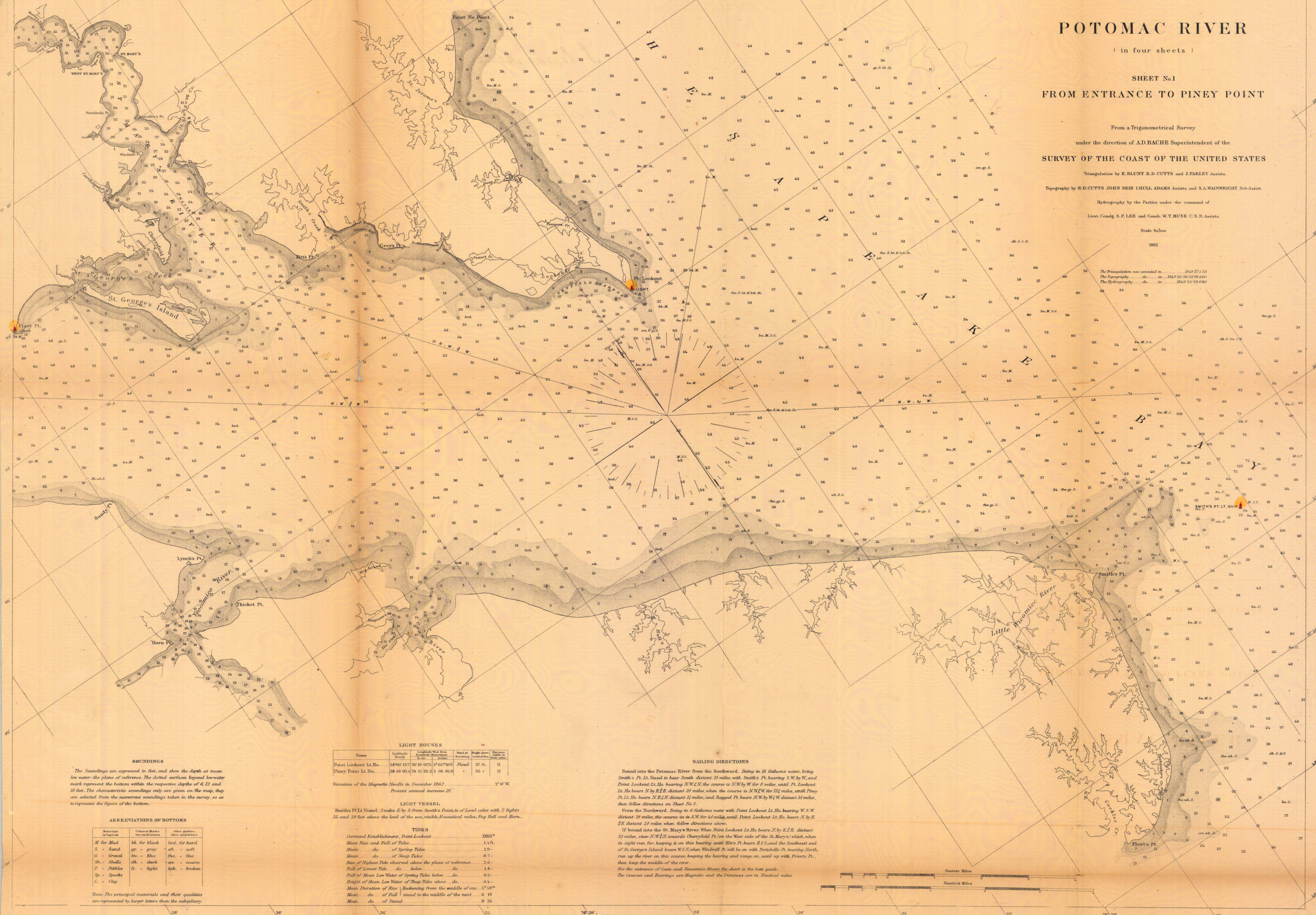
Hydrography by the Parties under the command of

Lieut. Comdr. S.P. LEE and Comdr. W.T. MUSE U.S.N. Assistants.

Scale Gunter

1862

The Triangulation was conducted on
The Topography do. on
The Hydrography do. on



SOUNDINGS

The Soundings are expressed in feet, and show the depth at mean low water: the plane of reference. The dotted surface beyond low water mark represents the bottom within the respective depths of 6, 12 and 18 feet. The characteristic soundings only are given on the map, they are selected from the numerous soundings taken in the survey, so as to represent the figure of the bottom.

ABBREVIATIONS OF BOTTOMS

Materials in English	Colors as Shown on small letters	Other qualities, their small letters
M for Mud	bk. for black	gr. for grey
S. for Sand	gy. for grey	st. for soft
G. for Gravel	bu. for blue	fin. for fine
Sh. for Shells	dk. for dark	ex. for coarse
P. for Pebbles	lt. for light	brk. for broken
Sp. for Specks		
C. for Clay		

Note: The principal materials and their qualities are represented by larger letters than the subsidiary.

LIGHT HOUSES

Name	Latitude North	Longitude West	Height above Sea	Light	Color	Height of Light
Point Lookout Lt. Ho.	38° 02' 15" N	76° 05' 10" W	37 ft.	Fl.	W.	11
Piney Point Lt. Ho.	38° 03' 45" N	76° 05' 00" W	35 ft.	Fl.	W.	11

Variation of the Magnetic Needle in December 1862 2° 0' W.
Present annual increase 2'

LIGHT VESSEL

Smith's Pt. L. Vessel, 3 miles E. by S. from Smith's Point, is of Lead color with 2 lights 35 and 50 feet above the level of the sea, visible by nautical miles, Fog Bell and Horn.

TIDES

Corrected Establishment, Point Lookout	XXXX"
Mean Rise and Fall of Tides	1.4 ft.
Mean of Spring Tides	1.9
Mean of Neap Tides	0.7
Time of Highest Tide observed above the plane of reference	2.6
Time of Lowest Tide below do.	1.8
Fall of Mean Low Water of Spring Tides below do.	0.2
Height of Mean Low Water of Neap Tides above do.	0.4
Mean Duration of Rise (Reckoning from the middle of one 5° 50"	
Mean of Fall (Reckoning from the middle of one 5° 50"	
Mean of Stand	0.35

SAILING DIRECTIONS

Bound into the Potomac River from the Southward, being in 16 fathoms water, bring Smith's Pt. L. Vessel to bear South distant 21 miles with Smith's Pt. bearing S.W. by W. and Point Lookout Lt. Ho. bearing N.W. by N. the course is N.W. by W. for 6 miles until Pt. Lookout Lt. Ho. bears N. by E. distant 21 miles, when the course is N.W. by W. for 12 miles until Piney Pt. Lt. Ho. bears N. by E. distant 11 miles, and Ragged Pt. bears N.W. by W. distant 31 miles, then follow directions on Sheet No. 2.

From the Northward, being in 6 fathoms water with Point Lookout Lt. Ho. bearing W.S.W. distant 21 miles, the course is in S.W. for 4 miles until Point Lookout Lt. Ho. bears N. by E. distant 21 miles, when follow directions above.

If bound into the St. Mary's River, when Point Lookout Lt. Ho. bears N. by E. distant 21 miles, steer N.W. by W. towards Chertoff's Pt. (on the West side of the St. Mary's) which, when in sight, run for, keeping it on this bearing until Eliza Pt. bears E. S. and the Southeast end of St. George's Island bears W. N. when Windmill Pt. will be on with Portobello Pt. bearing North, run up the river on this course, keeping the bearing and range on, until up with Priests Pt., then keep the middle of the river.

For the entrance of the Annapolis River the chart is the best guide.

The Courses and Bearings are Magnetic and the Distances are in Nautical miles.

